

Telecommunication Peripheral Products Technical Practice

CPA-7B General Purpose Telecom Paging System January 7, 1999

Add Paging, Loud Ringing and Background Music to Centrex, PABX's or Key Systems



The **CPA-7B** is a cost effective, multi- purpose, telecom paging system.

The **CPA-7B** features a low noise, high fidelity amplifier, providing 6 watts of power for a variety of telecom paging applications. It can also provide background music and night bell/common audible. In addition, multiple units may be daisy-chained for larger paging applications.

Compatible with ringing C.O. lines, Centrex lines and analog PABX/KSU station ports as well as unused trunk inputs, the **CPA-7B** will also interface directly with standard paging ports. For loud ringing, the **CPA-7B** generates an adjustable loud warble from a dry contact closure, a ringing C.O. or a ringing analog PABX/KSU station.

The **CPA-7B** is easy to install and can eliminate the installation of multiple bells, relays and paging cards.

http://www.VikingElectronics.com

Features

- 6 watts of paging power (powers up to (8) 8 ohm horns/speakers)
- Increased audio fidelity with low noise amplifier
- Interfaces with ringing C.O. lines, Centrex lines, paging ports, unused phone system trunk inputs, or ringing analog station ports
- 600 ohm audio output to connect multiple CPA-7B's for larger paging applications
- (1) 8 ohm 25AE paging horn included
- Day/night switchable for paging/loud ring
- Ringing/alert tone volume adjustment
- Paging volume adjustment
- Selectable ring trip paging and night bell
- · Background music is muted during page
- 10 pin cage clamp terminal strip for easier wiring
- Provides "Night Bell" warble tone via contact closure or ringing analog circuit
- Provides page "Alert" tone before paging
- Adjustable ring trip paging time out for auto disconnect
- Audio patch cord provided

Applications

- · Paging and loud ringing for Centrex systems
- Paging and loud ringing for phone systems with paging ports, unused analog station ports or unused trunk inputs

Sales...(715) 386 - 8861

Made in the U.S.A.

Specifications

Power: 120V AC/13.8V AC 1.25 A, UL listed adapter provided **Amplifier:** 6 watts - to power up to (8) 8 ohm speakers (cascadable to drive additional speakers)

Dimensions: 133 mm x 89 mm x 44 mm (5.25" x 3.5" x 1.75") **Shipping Weight:** 1.36 kg (3 lbs)

Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% noncondensing humidity

Speakers: (1) 25AE paging horn provided

Sound Pressure Level: 110dB, 1KHz @ 1m with (1) **25AE** Paging Horn (included), each additional horn will drop the output level of all horns by 1dB

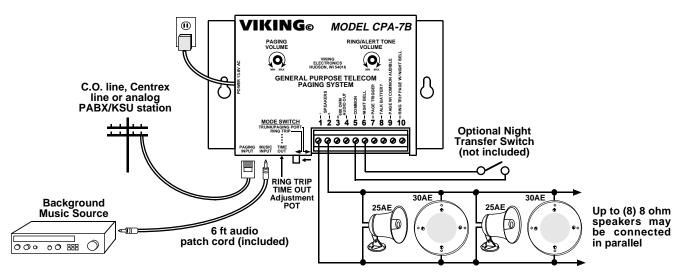
Maximum Speaker Cable Length: 91 m (300 ft) 18 AWG Connections: (1) RJ11 jack, (1) 3.5mm (1/8") audio jack, (1) 2.1mm barrel jack

Talk Battery Output: 19V DC (loop current 36mA nominal)

A. Ring Trip Paging with or without Night Bell

- 1. Set the MODE SWITCH to the RING TRIP position.
- 2. Adjust the RING TRIP TIME OUT POT as required (adjustable from approximately 10 25 seconds).
- 3. Plug a C.O. line, Centrex line or analog PABX/KSU station into the PAGING INPUT PORT.
- 4. Make a sample page adjusting paging and alert tone volume.
- 5. With the night transfer switch off (open), the CPA-7B will answer and page, then disconnect on CPC or time out.
- 6. With the night transfer switch on (closed), the CPA-7B will broadcast a night bell ring (electronic warble tone) during each incoming ring.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see *Installation/Applications* section *F*.

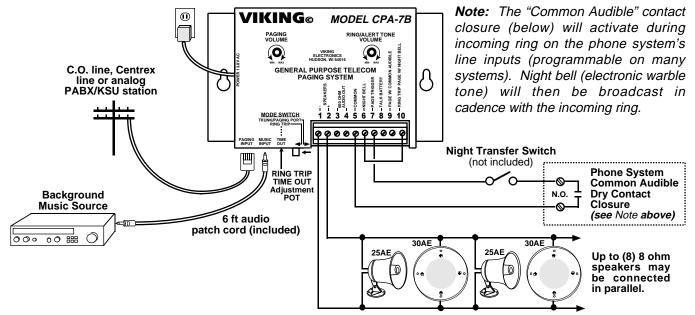


B. Ring Trip Paging with Night Bell/Common Audible from Contact Closure

- 1. Set the **MODE** switch to the **RING TRIP** position.
- 2. Adjust the RING TRIP TIME OUT POT as required (adjustable from approximately 10 to 25 seconds).
- 3. Connect the phone system's dry contacts to pins 5 and 7 and jumper terminal 6 to 10 as shown below.

Note: Common audible (night bell) takes precedence over ring trip paging.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see **Installation/Applications** section **F**.

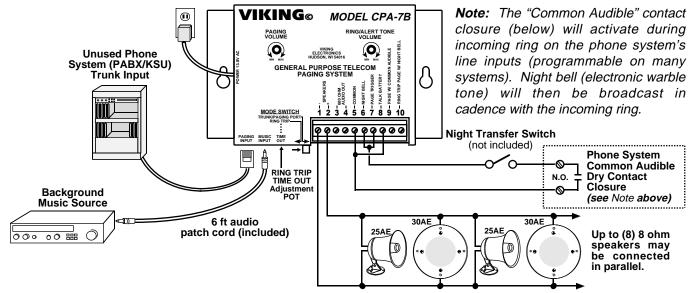


C. Paging from an Unused Phone System Trunk Input

- 1. Set the MODE SWITCH to the TRUNK/PAGING PORT position.
- 2. Adjust the RING TRIP TIME OUT POT to its maximum (fully clockwise) position.
- 3. Connect terminal 8 to 5 to provide talk battery on the PAGING INPUT PORT.
- 4. Connect the unused trunk port to the PAGING INPUT PORT.

Note: If both paging and loud common audible are required, connect the night transfer switch (optional), the phone system common audible dry contacts and jumper terminal **6** to **7** as shown below.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see *Installation/Applications* section *F*.

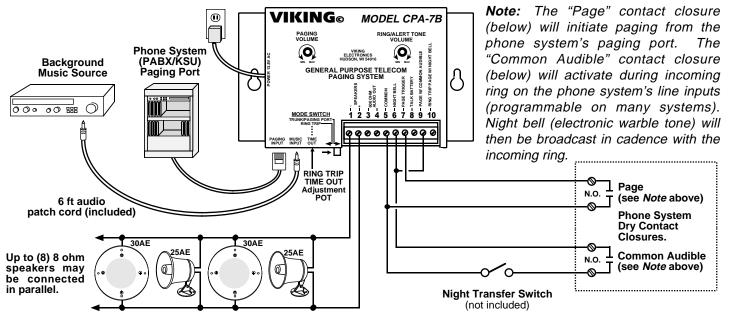


D. Paging from a Phone System's 600 Ohm Paging Port (with page dry contact closure provided)

- 1. Set the MODE SWITCH to the TRUNK/PAGING PORT position.
- 2. Adjust the RING TRIP TIME OUT POT to its maximum (fully clockwise) position.
- 3. Connect the phone system's paging port to the **PAGING INPUT PORT**.
- 4. Connect the phone system's paging dry contacts to terminals **5** and **7**. The contact closure will activate the alert tone for paging and mute the background music.

Note: If both paging and loud common audible are required, wire the night transfer switch (optional) to the phone system's common audible dry contacts and jumper terminals **9** to **6** as shown below.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see *Installation/Applications* section *F*.

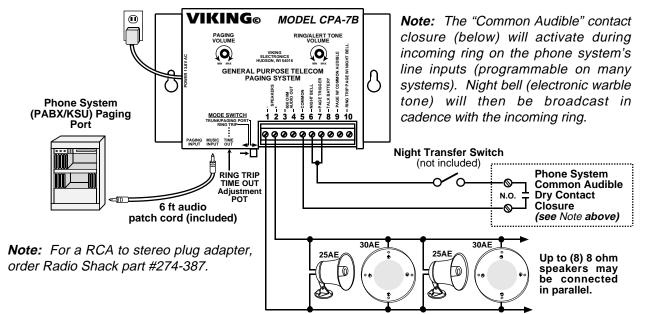


E. Paging from a Phone System's 600 Ohm Paging Port

- If the phone system does NOT provide a dry contact closure on "Page", connect the paging port to the 3.5mm (1/8") music input jack.
- 2. If loud common audible is required, connect the night transfer switch (optional), the phone system's common audible dry contacts and jumper terminals 6 to 7 as shown below.

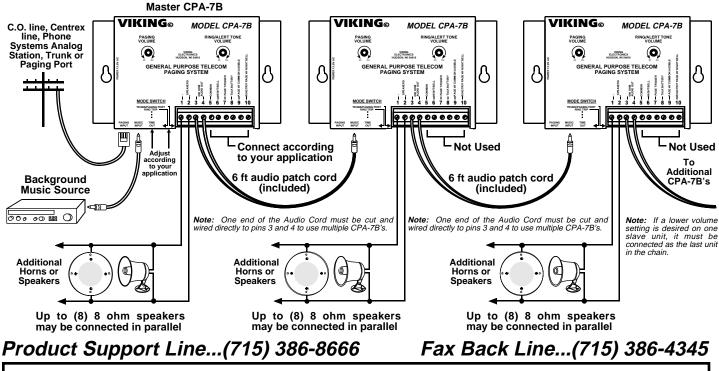
Note: The CPA-7B can NOT provide background music or alert tones in this application.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see *Installation/Applications* section *F*.



F. Cascading Multiple CPA-7B's to Drive Additional Speakers

An infinite number of **CPA-7B**'s may be daisy-chained together to a master **CPA-7B** to drive additional speakers as required. Only the master **CPA-7B** should be connected to the paging source, background music, phone system's dry contact closures, etc. The master **CPA-7B** controls the paging and ring/alert tone volume for all units. Set paging control volume on all slave units to the maximum position. Connect as shown below.



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